

## ABSTRACT OF THE DISCLOSURE

A light reception/emission device built-in module with optical and electrical wiring combined therein includes: an optical waveguide layer including a core portion and a cladding portion; first and second wiring patterns formed on a main surface of the optical waveguide layer; a light reception device disposed inside the optical waveguide layer, the light reception device being optically connected with the core portion of the optical waveguide layer and being electrically connected with the first wiring pattern; and a light emission device disposed inside the optical waveguide layer, the light emission device being optically connected with the core portion of the optical waveguide layer and being electrically connected with the second wiring pattern. With this configuration, optical coupling between the optical waveguide and the light reception/emission device can be conducted precisely.